



AMKASYN
Main spindle Motors DH
Technical data

Version: 1999/23

Part-No.: 25779

AMK

About this documentation

Name: PDK_025779_Motoren_DH_en

What has changed:

Version	Change	Subject	Letter symbol
1999/23			

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- the device setup and application
- the type of malfunction, suspected cause of failure
- the diagnostic messages (error messages)

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1 AMKASYN main spindle motors DH

AMKASYN main spindle motors DH are highly dynamic and sturdy three-phase asynchronous motors and are especially suitable as main drives or high power servo drives. These motors feature a constant power speed range of 1:3, with rated power up to 38 kW and rated torque up to 240 Nm.

200 to 300% of rated torque can be delivered briefly up to rated speed. The heavy duty design and strengthened bearings permit high radial loads.

AMKASYN main spindle motors DH in addition display very good servo properties. They can be used in speed control, position and synchronous control in combination with the digital AMK inverters type AMKASYN.

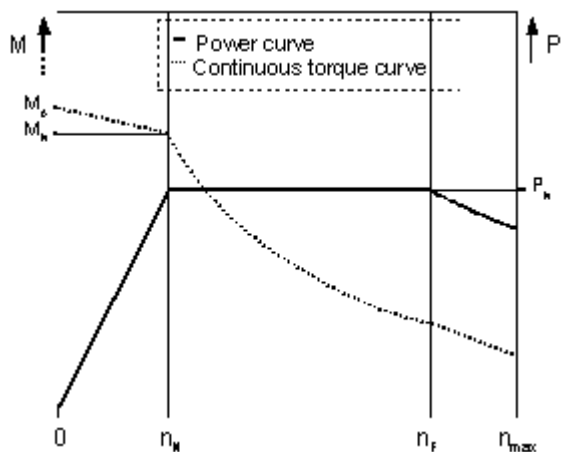
Features

- Low maintenance
- Heavy duty bearings
- TEFC - totally enclosed fan cooled; airflow towards the output shaft (optional reverse airflow)
- High overload capacity
- Outstanding servo properties

Standard version

Mounting:	B5 Metric flange
Degree of protection:	IP 54
Motor connection:	Terminal box
Position feedback:	Optical sine wave encoder, Type I
Keyway:	Standard
Airflow direction:	Towards output shaft

Motor performance curve



picture name: ZCH_Motoren_DH_Charakterische_Kennlinie

Options

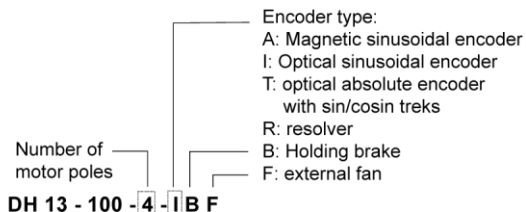
- Holding brake
- Shaft end without keyway
- Reverse fan airflow
- Higher rated balancing
- Higher rated runout tolerances

2 Technical data DH

Rated voltage 350V

Motor type	M ₀ [Nm]	M _N [Nm]	P _N [kW]	I _N [A]	I _M [A]	I _{M1} [A]	T _R [s]	n _N [1/min]	n _F [1/min]	n _{max} [1/min]	J *10 ⁻³ [kgm ²]	m [kg]	L [mm]	LBr [mm]
DH 10- 40-4-..F-1500	43	40	6,3	15	5,5	3,7	0,17	1500	4500	5500	18	57	500	579
DH 10- 55-4-..F-1800	56	53	10	22,5	8,0	5,0	0,14	1800	3600	5500	22	71	600	679
DH 13- 60-4-..F-1500	68	60	9,5	23	8,0	4,5	0,28	1500	3000	5000	46	90	520	610
DH 13-100-4-..F-1500	100	95	15	32	15,5	6,3	0,28	1500	3000	5000	80	125	630	720
DH 13-120-4-..F-1500	125	110	17,5	39	16,0	11,0	0,35	1500	3000	5000	95	145	680	770
DH 13-150-4-..F-1800	155	148	28	63	25,5	15,0	0,31	1800	3200	5000	120	180	780	870
DH 16-180-4-..F-1500	190	180	28	62	16,0	10,5	0,4	1500	3000	4500	160	220	725	870
DH 16-240-4-..F-1500	255	240	38	78	25,0	16,0	0,35	1500	3000	4500	210	265	825	970

3 AMKASYN Motor name plate (asynchronous motor DH)



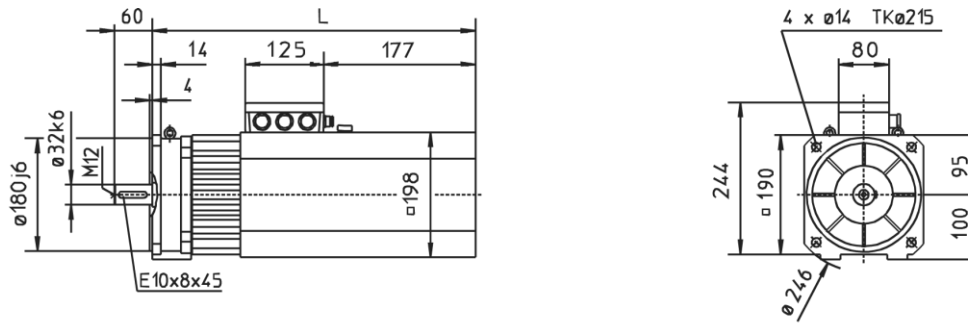
AMK Arnold Müller GmbH & Co. KG D-73230 Kirchheim/Teck		S.-Nr.	- -		VDE 0530-T1:1995	CE							
Type DH 13 - 100 - 4 - I B F				MOT 3~	LÜFTER / FAN		BREMSE / BRAKE						
P	15 kW	M	95 Nm	U	350 V	I	34 A	IP	54	U _L	3 x 400 V	U _{Br}	24 V _c
I _M	10.5 A	I _{M1}	6.3 A	T _R	0.280 s	Encoder	1000	P./Rev.	ISO.-KL. F	I _L	0.5 A	I _{Br}	2.3 A
KD-Nr:				n/n _{max}	1500 / 5000		r/min	f _L	50 Hz	M _{Br}	100 Nm		

IM , IM1 : Magnetizing current
M : Nominal motor torque
TR : Rotor time constant
I : Nominal motor current
n : Nominal motor speed
P./Rev : Encoder periods per revolution

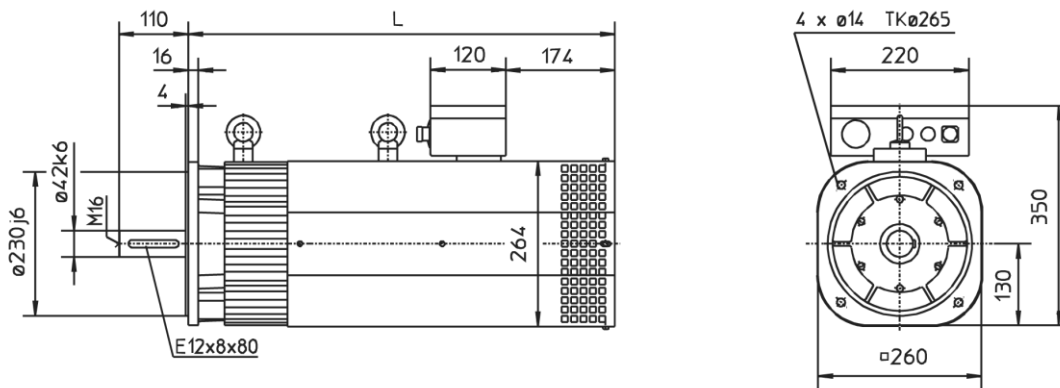
picture name: ZCH_Motoren_Typenschild_DH

4 Dimensions DH

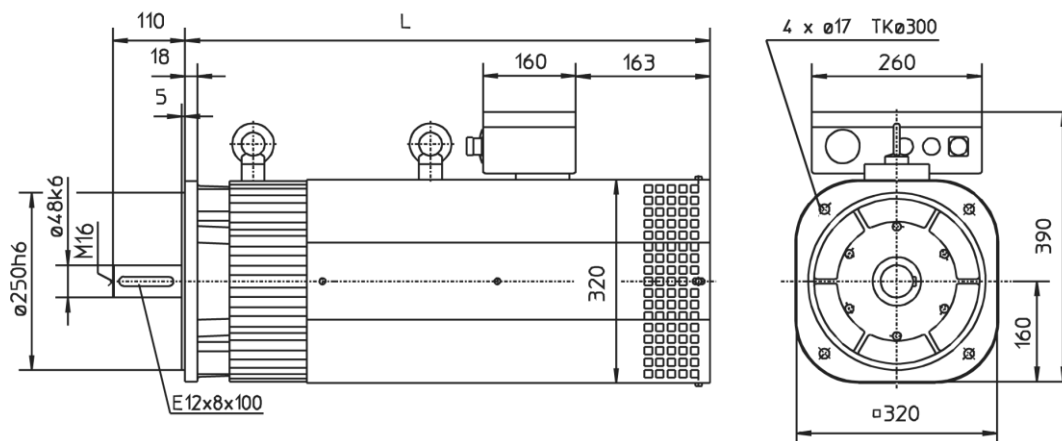
DH10



DH13



DH16



picture name: ZCH_Motoren_Abmessungen_DH

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